

# BROOKSIDE LABORATORIES, INC.

## SATURATED SOIL ANALYSIS

Jumping Brook Country Club  
210 Jumping Brook Road  
Neptune, NJ 07753

File Number: 74738  
Date Received: 04/24/2020  
Date Reported: 04/28/2020

Submitted By: Soil and Water Consulting

|                  |       |       |       |        |       |       |  |
|------------------|-------|-------|-------|--------|-------|-------|--|
| Lab Number       | 0012  |       |       | 0013   |       |       |  |
| Description      | TEE   |       |       | TEE    |       |       |  |
|                  | 4     |       |       | 7      |       |       |  |
| pH               | 7.4   |       |       | 7.5    |       |       |  |
|                  | (ppm) | meq/l | %     | (ppm)  | meq/l | %     |  |
| Soluble Salts *  | 232   |       |       | 233    |       |       |  |
| Chloride         | 24    |       |       | 19     |       |       |  |
| Nitrate (NO3-N)  | 5.1   |       |       | 2.7    |       |       |  |
| Bicarbonate      | 31.19 |       |       | 40.04  |       |       |  |
| Sulfur           | 35.85 |       |       | 41.69  |       |       |  |
| Phosphorus       | 0.68  |       |       | 0.79   |       |       |  |
| Calcium          | 45.28 | 2.26  | 52.93 | 49.63  | 2.48  | 53.23 |  |
| Magnesium        | 10.87 | 0.89  | 20.94 | 10.91  | 0.90  | 19.28 |  |
| Potassium        | 25.88 | 0.66  | 15.51 | 28.30  | 0.72  | 15.56 |  |
| Sodium           | 10.42 | 0.45  | 10.62 | 12.77  | 0.56  | 11.94 |  |
| TOTAL            |       | 4.27  | 100   |        | 4.65  | 100   |  |
| Boron            | 0.06  |       |       | 0.06   |       |       |  |
| Iron             | 0.77  |       |       | 3.32   |       |       |  |
| Manganese        | 0.02  |       |       | < 0.01 |       |       |  |
| Copper           | 0.03  |       |       | 0.03   |       |       |  |
| Zinc             | 0.03  |       |       | 0.02   |       |       |  |
| Aluminum         | 1.31  |       |       | 3.78   |       |       |  |
| Ammonium (NH4-N) | 0.7   |       |       | 1.2    |       |       |  |
| ESP (calculated) | < .01 |       |       | < .01  |       |       |  |
| SAR (calculated) | 0.36  |       |       | 0.43   |       |       |  |

\* Soluble Salts: mmhos/cm = ppm / 640

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|-------------------------------|---------|-------|-------|---------|-------|-------|--|
| Lab Number                    | 0014    |       |       | 0015    |       |       |  |
| Description                   | FAIRWAY |       |       | FAIRWAY |       |       |  |
|                               | 4       |       |       | 7       |       |       |  |
| pH                            | 7.3     |       |       | 6.8     |       |       |  |
|                               | (ppm)   | meq/l | %     | (ppm)   | meq/l | %     |  |
| Soluble Salts *               | 278     |       |       | 211     |       |       |  |
| Chloride                      | 30      |       |       | 43      |       |       |  |
| Nitrate (NO <sub>3</sub> -N)  | 8.1     |       |       | 4.5     |       |       |  |
| Bicarbonate                   | 29.53   |       |       | 11.23   |       |       |  |
| Sulfur                        | 44.49   |       |       | 24.54   |       |       |  |
| Phosphorus                    | 0.16    |       |       | 0.42    |       |       |  |
| Calcium                       | 55.86   | 2.79  | 54.75 | 30.23   | 1.51  | 39.78 |  |
| Magnesium                     | 12.36   | 1.02  | 19.97 | 8.79    | 0.72  | 19.06 |  |
| Potassium                     | 26.23   | 0.67  | 13.18 | 21.83   | 0.56  | 14.72 |  |
| Sodium                        | 14.17   | 0.62  | 12.10 | 23.06   | 1.00  | 26.44 |  |
| TOTAL                         |         | 5.09  | 100   |         | 3.79  | 100   |  |
| Boron                         | 0.02    |       |       | 0.06    |       |       |  |
| Iron                          | 1.13    |       |       | 0.52    |       |       |  |
| Manganese                     | < 0.01  |       |       | 0.06    |       |       |  |
| Copper                        | 0.03    |       |       | 0.08    |       |       |  |
| Zinc                          | 0.02    |       |       | 0.07    |       |       |  |
| Aluminum                      | 1.44    |       |       | 1.03    |       |       |  |
| Ammonium (NH <sub>4</sub> -N) | 1.7     |       |       | 0.5     |       |       |  |
| ESP (calculated)              | < .01   |       |       | 0.14    |       |       |  |
| SAR (calculated)              | 0.45    |       |       | 0.95    |       |       |  |

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|------------------|-------|-------|-------|--------|-------|-------|--|
| Lab Number       | 0016  |       |       | 0017   |       |       |  |
| Description      | GREEN |       |       | GREEN  |       |       |  |
|                  | 4     |       |       | 7      |       |       |  |
| pH               | 7.3   |       |       | 7.3    |       |       |  |
|                  | (ppm) | meq/l | %     | (ppm)  | meq/l | %     |  |
| Soluble Salts *  | 221   |       |       | 221    |       |       |  |
| Chloride         | 21    |       |       | 12     |       |       |  |
| Nitrate (NO3-N)  | 2.9   |       |       | 4.2    |       |       |  |
| Bicarbonate      | 30.19 |       |       | 26.21  |       |       |  |
| Sulfur           | 35.13 |       |       | 40.50  |       |       |  |
| Phosphorus       | 2.15  |       |       | 1.16   |       |       |  |
| Calcium          | 39.23 | 1.96  | 48.85 | 40.10  | 2.00  | 47.66 |  |
| Magnesium        | 7.95  | 0.65  | 16.32 | 8.64   | 0.71  | 16.93 |  |
| Potassium        | 37.47 | 0.96  | 23.91 | 37.10  | 0.95  | 22.61 |  |
| Sodium           | 10.06 | 0.44  | 10.92 | 12.36  | 0.54  | 12.80 |  |
| TOTAL            |       | 4.01  | 100   |        | 4.20  | 100   |  |
| Boron            | 0.05  |       |       | 0.05   |       |       |  |
| Iron             | 0.89  |       |       | 1.02   |       |       |  |
| Manganese        | 0.02  |       |       | < 0.01 |       |       |  |
| Copper           | 0.03  |       |       | 0.03   |       |       |  |
| Zinc             | 0.04  |       |       | 0.05   |       |       |  |
| Aluminum         | 1.05  |       |       | 1.31   |       |       |  |
| Ammonium (NH4-N) | 0.6   |       |       | < 0.5  |       |       |  |
| ESP (calculated) | < .01 |       |       | < .01  |       |       |  |
| SAR (calculated) | 0.38  |       |       | 0.46   |       |       |  |

\* Soluble Salts: mmhos/cm = ppm / 640